

ABSTRACT

A method and an apparatus to accept line-scan data sets at a camera rate from a line-scan camera and resample the line-scan data sets to produce resampled line image data sets at a desired sampling distance. Each line-scan data set is of an object imaged for a fixed exposure time and moving at a relative speed in relation to the line-scan camera. The method includes accepting the line-scan data sets at the camera rate from the line-scan camera, accepting a measure of the relative speed between the line-scan camera and the object being imaged by the line-scan camera, and resampling the line-scan data sets to produce resampled line image data sets at the desired sampling distance. The resampling is a function of the camera rate, the measure of relative speed and the desired sampling distance. The resampling adjusts for the variations in relative speed to produce faithfully exposed data.